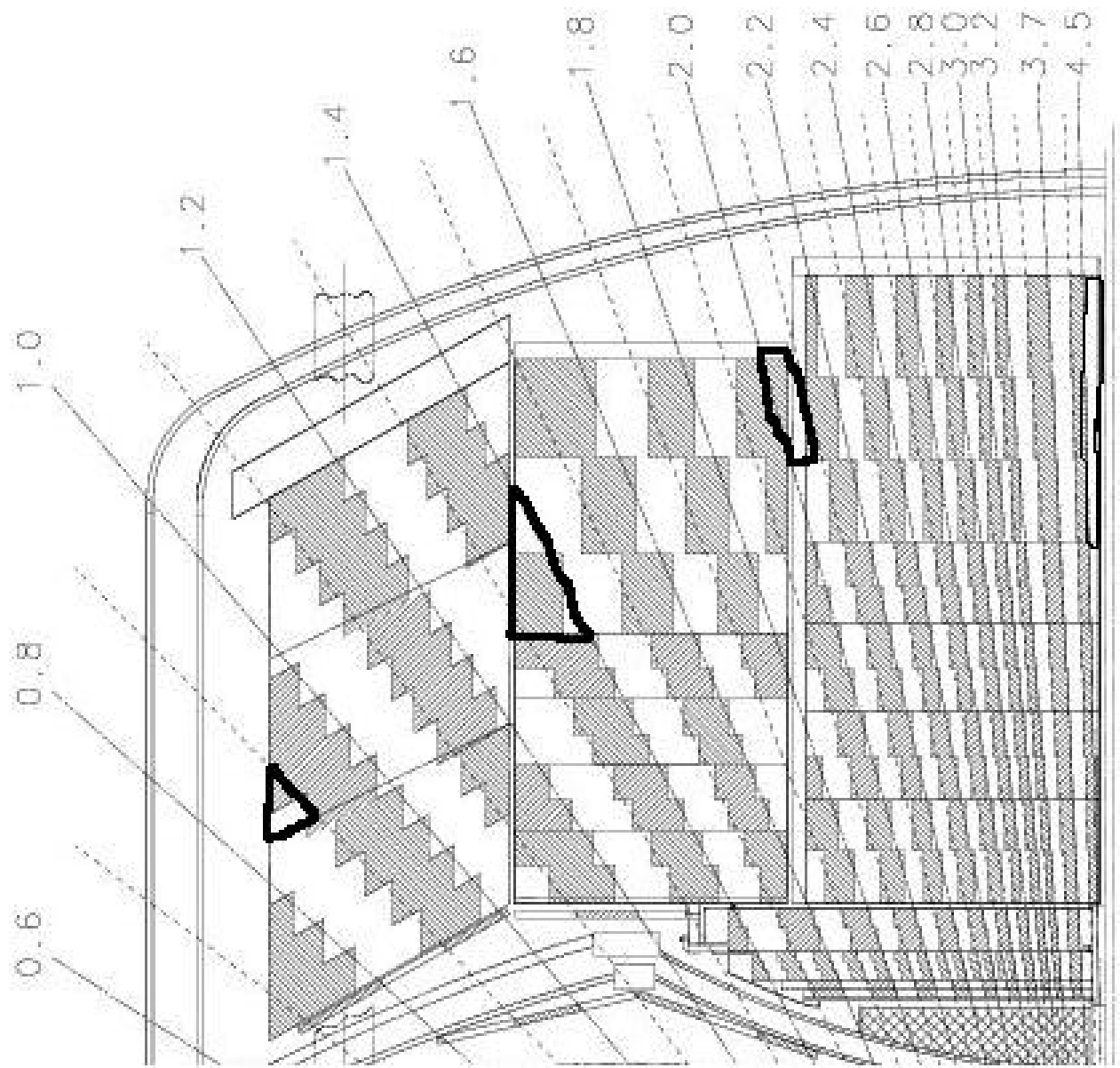


Low energy cells in CH: is that right ?

- Last JetID meeting, Sophie showed that there are CH cells in data events with low energies (300 MeV, sometime even 100 MeV).
- The noise in CH is supposed to be 300-500 MeV, and we suppress at 2.5σ so how is this possible ?
 - is the ZS file wrong ?
 - bug in ZS software ?
- Sophie provided a list of cells that Robert and me looked at

- Typical channels showing up
 - eta=37 all iphi: ~300 MeV
 - could be real energy, all cells have ~100 MeV noise σ occupancy ~ok so noise estimate fine (small cell ?)
 - eta=9, layer 16: ~ 400 MeV
 - noise σ small for all phi, small cell
 - eta=14, layer 15: ~ 400 MeV
 - idem
 - eta=21, layer 15
 - idem



Prelim. conclusions

- Looks like these are CH cells with genuine lower sigma than typical CH cells, because they are small.
 - no indication of problems with ZS file or ZS software
- Have to look a little more in details.